

Serial No. 10/606,441
DeClerck et al
Case No. CE10654R.

Amendments to the Claims:

1. (Cancelled)

2. (Currently Amended) The method of claim 1, A method in a wireless communication system for mitigating power-control errors during a soft handoff of a mobile unit, the method comprising:

programming a plurality of base stations with a uniform power-control bit pattern to be sent to the mobile unit during a plurality of power-control bit times, before the mobile unit is acquired on a reverse link; and

timing transmissions of the uniform power-control bit pattern such that the plurality of base stations, when transmitting, send identical power-control bits during each of the plurality of power-control bit times, and

wherein programming the plurality of base stations with the uniform power-control bit pattern comprises programming a pattern that requires more than a single transmission frame of a forward link from a base station to the mobile unit before the pattern repeats, and

wherein timing the transmissions comprises synchronizing the transmissions from each of the plurality of base stations such that the transmissions start at substantially identical times.

3. (Currently Amended) The method of claim [[1]] 2,

wherein programming the plurality of base stations with the uniform power-control bit pattern comprises programming a pattern that repeats after a

Serial No. 10/606,441
DeClerck et al
Case No. CE10654R

single one of a plurality of transmission frames of a forward link from the base station to the mobile unit, and

wherein timing the transmissions comprises starting the transmissions at substantially identical points within different ones of the plurality of transmission frames.

4. (Currently Amended) The method of claim [[1]] 2,

wherein programming the plurality of base stations with the uniform power-control bit pattern comprises programming a pattern that repeats after a single one of a plurality of transmission frames of a forward link from the base station to the mobile unit, and

wherein timing the transmissions comprises starting the transmissions at substantially identical points within a specific one of the plurality of transmission frames.

5. (Cancelled)

6. (Cancelled)

7. (Original) The apparatus of claim 6, An apparatus for use in a wireless communication system for mitigating power-control errors during a soft handoff of a mobile unit, the apparatus for use with a base station of a plurality of base stations attempting to communicate with the mobile unit, the apparatus comprising:

Serial No. 10/606,441
DeClerck et al
Case No. CE10654R

a processor for controlling the base station;
a memory element coupled to the processor for programming the
processor, the memory element comprising a uniform power-control bit pattern to be sent
by different ones of the plurality of base stations to the mobile unit during a plurality of
power-control bit times, before the mobile unit is acquired on a reverse link; and

a synchronizer coupled to the processor for cooperating with the
processor to time transmissions of the uniform power-control bit pattern such that the
plurality of base stations, when transmitting, send identical power-control bits during
each of the plurality of power-control bit times, and

wherein the uniform power-control bit pattern is a pattern that
requires more than a single transmission frame of a forward link from the base station to
the mobile unit before the pattern repeats, and

wherein the synchronizer is arranged and programmed such that
the transmissions of the uniform power-control bit pattern from the plurality of base
stations start at substantially identical times.

8. (Currently Amended) The apparatus of claim [[6]] 7,

wherein the uniform power-control bit pattern is a pattern that
repeats after a single one of a plurality of transmission frames of a forward link from the
base station to the mobile unit, and

wherein the synchronizer is arranged and programmed such that
the transmissions of the uniform power-control bit pattern from the plurality of base

Serial No. 10/606,441
DeClerck et al
Case No. CE10654R

stations start at substantially identical points within different ones of the plurality of transmission frames.

9. (Currently Amended) The apparatus of claim [[6]] 7,

wherein the uniform power-control bit pattern is a pattern that repeats after a single one of a plurality of transmission frames of a forward link from the base station to the mobile unit, and

wherein the synchronizer is arranged and programmed such that the transmissions of the uniform power-control bit pattern from the plurality of base stations start at a substantially identical point within a specific one of the plurality of transmission frames.

10. (Cancelled)

11. (Cancelled)

12. (Currently Amended) The base station of claim 11, A base station for use in a wireless communication system for mitigating power-control errors during a soft handoff of a mobile unit, the base station being one of a plurality of base stations attempting to communicate with the mobile unit, the base station comprising:

a processor for controlling the base station;

a wireless transceiver coupled to the processor for providing

wireless communications for the base station;

Serial No. 10/606,441
DeClerck et al
Case No. CE10654R

a memory element coupled to the processor for programming the processor, the memory element comprising a uniform power-control bit pattern to be sent by different ones of the plurality of base stations to the mobile unit during a plurality of power-control bit times, before the mobile unit is acquired on a reverse link; and

a synchronizer coupled to the processor for cooperating with the processor to time transmissions of the uniform power-control bit pattern such that the plurality of base stations, when transmitting, send identical power-control bits during each of the plurality of power-control bit times, and

wherein the uniform power-control bit pattern is a pattern that requires more than a single transmission frame of a forward link from the base station to the mobile unit before the pattern repeats, and

wherein the synchronizer is arranged and programmed such that the transmissions of the uniform power-control bit pattern from the plurality of base stations start at substantially identical times.

13. (Currently Amended) The base station of claim [[11]] 12,

wherein the uniform power-control bit pattern is a pattern that repeats after a single one of a plurality of transmission frames of a forward link from the base station to the mobile unit, and

wherein the synchronizer is arranged and programmed such that the transmissions of the uniform power-control bit pattern from the plurality of base stations start at substantially identical points within different ones of the plurality of transmission frames.

Serial No. 10/606,441
DeClerck et al
Case No. CE10654R

14. (Currently Amended) The base station of claim [[11]] 12,
wherein the uniform power-control bit pattern is a pattern that
repeats after a single one of a plurality of transmission frames of a forward link from the
base station to the mobile unit, and
wherein the synchronizer is arranged and programmed such that
the transmissions of the uniform power-control bit pattern from the plurality of base
stations start at a substantially identical point within a specific one of the plurality of
transmission frames.
15. (Cancelled)
16. (Cancelled)
17. (Currently Amended) The infrastructure of claim 16, A wireless communication system infrastructure for mitigating power-control errors during a soft handoff of a mobile unit, the infrastructure comprising:
a central controller for controlling the communication system infrastructure; and
a plurality of base stations coupled to the central controller for handling communications of the infrastructure, wherein a base station of the plurality of base stations comprises:
a processor for controlling the base station;

Serial No. 10/606,441
DeClerck et al
Case No. CE10654R

a wireless transceiver coupled to the processor for providing wireless communications for the base station;

a memory element coupled to the processor for programming the processor, the memory element comprising a uniform power-control bit pattern to be sent by different ones of the plurality of base stations to the mobile unit during a plurality of power-control bit times, before the mobile unit is acquired on a reverse link; and

a synchronizer coupled to the processor for cooperating with the processor to time transmissions of the uniform power-control bit pattern such that the plurality of base stations, when transmitting, send identical power-control bits during each of the plurality of power-control bit times, and

wherein the uniform power-control bit pattern is a pattern that requires more than a single transmission frame of a forward link from the base station to the mobile unit before the pattern repeats, and

wherein the synchronizer is arranged and programmed such that the transmissions of the uniform power-control bit pattern from the plurality of base stations start at substantially identical times.

18. (Currently Amended) The infrastructure of claim [[16]] 17,

wherein the uniform power-control bit pattern is a pattern that repeats after a single one of a plurality of transmission frames of a forward link from the base station to the mobile unit, and

wherein the synchronizer is arranged and programmed such that the transmissions of the uniform power-control bit pattern from the plurality of base

Serial No. 10/606,441
DeClerck et al
Case No. CE10654R

stations start at substantially identical points within different ones of the plurality of transmission frames.

19. (Currently Amended) The infrastructure of claim [[16]] 17,

wherein the uniform power-control bit pattern is a pattern that repeats after a single one of a plurality of transmission frames of a forward link from the base station to the mobile unit, and

wherein the synchronizer is arranged and programmed such that the transmissions of the uniform power-control bit pattern from the plurality of base stations start at a substantially identical point within a specific one of the plurality of transmission frames.

20. (Cancelled)